

TWO PIECE ELASTOMER RELIEF AND ANTI-DRAIN BACK VALVES FOR FLUID FILTER

ABSTRACT OF THE DISCLOSURE

A fluid filter includes a housing having a tapping plate with a first aperture. A center tube is arranged in the housing proximate to the tapping plate. The center tube includes a second aperture. An elastomeric valve assembly is arranged between the center tube and the tapping plate. The valve assembly comprises a separate two-piece relief valve and anti-drain back valve. The anti-drain back valve is arranged adjacent to the first aperture for selectively blocking the first aperture to prevent fluid from exiting in the side of the filter during engine shut down. The relief valve is arranged adjacent to the second aperture for selectively blocking the second aperture to permit fluid to flow past the relief valve during high differential pressure conditions such as cold starts and plugged filter conditions.